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May 4, 1999

Attorney Docket No.: 06816/065002/2426-1

Box Patent Application

Assistant Commissioner for Patents
Washington, DC 20231

Presented for filing is a new continuation patent application of:

Applicant: SARATH D. GUNAPALA and SUMITH V. BANDARA

Title: DUAL BAND QWIP FOCAL PLANE ARRAY

Enclosed are the following papers, including all those required to receive a filing date under 37 CFR §1.53:

	<u>Pages</u>
Specification	57
Claims	10
Abstract	1
Declaration	2
Drawing(s)	23
Small Entity Statement	1 (copy from parent)

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Date of Deposit 5-4-99

I hereby certify under 37 CFR 1.10 that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office To Addressee" with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

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Enclosures:

- Rule 63 declaration from previous application under Rule 63(d). This application includes the inventive contribution of fewer inventors than those in the parent case.

Please delete the inventor "K.K. Choi" as allowed by Rule 63(d)(2).

- Information Disclosure Statement: Applicant calls attention to documents listed on attached form(s) PTO-892 and PTO-1449 from parent case(s). Per Rule 97(d) copies of those documents are not provided.
- Postcard.

This application is a continuation application (and claims the benefit of priority under 35 USC §120) of U.S. application serial no. 08/928,292, filed September 12, 1997, which application is a continuation-in-part of U.S. application serial no. 08/708,076, filed August 27, 1996. The disclosure of the prior applications are considered part of (and is incorporated by reference in) the disclosure of this application.

Preliminary Amendment:

Page 1 of the specification, before line 1, insert --This is a continuation of U.S. application serial no. 08/928,292, filed September 12, 1997, (pending), which application is a continuation-in-part of U.S. application serial no. 08/708,076, filed August 27, 1996.--

In the Claims:

Kindly cancel claims 7, 8, 27 and 28 prior to examination.

Kindly add the following new claims:

--34. (New) A photodetector as in claim 1, further comprising a two-dimensional grating array having an array of grating elements and formed over said array of photodetectors so that each grating element is above a photodetector, wherein said grating array is configured to couple radiation at said first and second wavelengths to said array of detectors with an electrical field component perpendicular to said barrier layers and well layers.

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35. (New) A device as in claim 17, further comprising a two-dimensional grating array having an array of grating elements and formed over said array of photodetectors so that each grating element is above a photodetector, wherein said grating array is configured to couple radiation at said first and second wavelengths to said array of detectors with an electrical field component perpendicular to layers of said quantum wells.--

The prior application is assigned of record to California Institute of Technology, a California corporation, by virtue of an assignment submitted to the Patent and Trademark Office for recording on February 17, 1998, at Reel 8999, Frame 0120.

This application is entitled to small entity status. A small entity statement is attached.

31 Total Claims, 3 independent:

Basic filing fee	\$ 380.00
Total claims in excess of 20 times \$9.00	99.00
Independent claims in excess of 3 times \$39.00	0.00
Multiple dependent claims	0.00
Total filing fee:	\$ 479.00

A check for the filing fee is enclosed. Please apply any other required fees or any credits to deposit account 06-1050, referencing the attorney docket number shown above.

If this application is found to be INCOMPLETE, or if a telephone conference would otherwise be helpful, please call the undersigned at 619/678-5070.

Kindly acknowledge receipt of this application by returning the enclosed postcard.

06-1050-1000000

Box 1

Abstract